



## CERTIFICATE OF ANALYSIS

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### 1. Identification

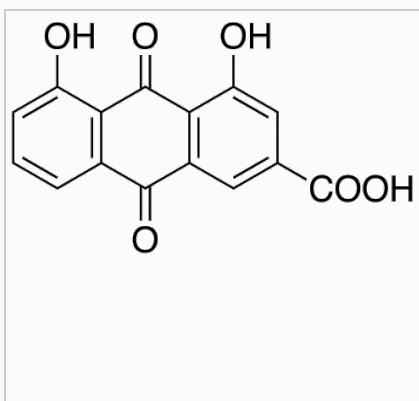
**Catalogue Number:** R318500

**CAS Number:** 478-43-3

**Product:** Rhein

**Synonym:** 9,10-Dihydro-4,5-dihydroxy-9,10-dioxo-2-anthracenecarboxylic Acid; 4,5-Dihydroxy-2-anthraquinonecarboxylic Acid; Chrysazin-3-carboxylic Acid; Monorhein; NSC 38629; Rheic Acid; Rhubarb Yellow; Diacerein Impurity C

**Structure:**



**Molecular Formula:**

C<sub>15</sub>H<sub>8</sub>O<sub>6</sub>

**Molecular weight:**

284.22

**Source of Product:**

N/A

**Solubility:**

Aqueous Base (Sparingly),  
DMSO (Slightly), Methanol  
(Slightly)

**Lot Number:** 1-KOP-144-1

**Purity:** 98%

**Shipping Condition:** This Product Is Stable To Be Shipped At Room Temperature

**Storage Condition:** -20°C

### 2. Warning

**Warning 1:**

**Warning 2:**

**Warning 3:**

### 3. Analytical Information

Tests:	Specifications:	Results:
Appearance	Yellow to Dark Orange Solid	Orange to Dark Yellow Solid
Elemental Analysis	Conforms	%C: 62.95, %H: 2.74
NMR	Conforms to Structure	Conforms
MS	Conforms to Structure	Conforms
HPLC Purity	Report Result	99.79% (230 nm)

**Additional Information:** N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of  $\pm 2\%$ . Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

### 4. Signatures

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Henry Tieu	Toni Rantanen	Chanell Chu	10/18/2022	10/16/2026